

ABSTRACT

[0024] The present invention is directed to a surgical method, particularly for procedures on the brain, in which it is possible to select the tissue to be treated. In the method according to the invention, a probe is positioned in the area of the diseased change and tissue selection is activated in that different electrical and/or electro-magnetic stimulus signals which can be preadjusted or modulated are sent to the tissue. Healthy tissue parts can be distinguished from pathologically changed tissue parts by evaluating the responses to these stimuli. When the stimulus response is absent or unexpected, the corresponding therapeutic or surgical treatment is carried out by means of the same probe at the selected site. Otherwise, the probe is repositioned and the tissue selection is activated again. With the method according to the invention for tissue-selective treatment, particularly on the brain, it is possible to sever, fragment and/or suction off certain pathologically altered tissue parts from the remaining, healthy tissue parts without damaging the healthy tissue parts.